

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,504	07/16/2003	Takayuki Watanabe	ELPIDA NEC03P103	8512
7.	590 01/14/2004		EXAM	INER
Norman P. Soloway			HOANG, HUAN	
HAYES SOLOWAY P.C. 130 W. Cushing Street			ART UNIT	PAPER NUMBER
Tucson, AZ 85701			2818	
			DATE MAILED: 01/14/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A			
	Application No.	Applicant(s)			
Coffice Action Summary	10/620,504	WATANABE, TAKAYUKI			
Office Action Summary	Examin r	Art Unit			
	Huan Hoang	2818			
The MAILING DATE of this commun Period for Reply	ication appears on the cov r sh et w	vith the correspond nce address			
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUNI - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm - If the period for reply specified above is less than thirty (3 - If NO period for reply is specified above, the maximum st - Failure to reply within the set or extended period for reply - Any reply received by the Office later than three months a earned patent term adjustment. See 37 CFR 1.704(b). Status	ICATION. c of 37 CFR 1.136(a). In no event, however, may a nunication. BO) days, a reply within the statutory minimum of this tatutory period will apply and will expire SIX (6) MO will, by statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
1) Responsive to communication(s) file	ed on				
2a) This action is FINAL .	2b)⊠ This action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)⊠ Claim(s) <u>1-6</u> is/are pending in the ap 4a) Of the above claim(s) is/a 5)□ Claim(s) is/are allowed. 6)⊠ Claim(s) <u>1 and 3-5</u> is/are rejected. 7)⊠ Claim(s) <u>2 and 6</u> is/are objected to. 8)□ Claim(s) are subject to restrict	re withdrawn from consideration.				
Application Papers	Silon and or orosion roquitomonic	·			
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any obje	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. §§ 119 and 120					
application from the Internation * See the attached detailed Office action 13) Acknowledgment is made of a claim f	documents have been received. documents have been received in a of the priority documents have been onal Bureau (PCT Rule 17.2(a)). on for a list of the certified copies no for domestic priority under 35 U.S.C ed in the first sentence of the specific nguage provisional application has been for domestic priority under 35 U.S.C	Application No n received in this National Stage t received § 119(e) (to a provisional application) cation or in an Application Data Sheet. been received §§ 120 and/or 121 since a specific			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (F3) Information Disclosure Statement(s) (PTO-1449) F	PTO-948) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)			
-, was maintain bisologue oracomonito, (1 10 1440)1		·			

Application/Control Number: 10/620,504

Art Unit: 2818

Page 2

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 3 and 4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase "a volatile memory" (claim 3, line 6) is unclear. Is this volatile memory the same or different from "a volatile memory" recited in claim 3, line 4. If they are different, the phrase "said volatile memory" in claim 3, line 9 does not clearly refer to which of these two volatile memories.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 3 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Miller et al..

Art Unit: 2818

Miller et al. discloses a recovery method a memory module and a volatile memory having a redundant memory cell having all the elements and steps as recited in claims 1, 3 and 5 as follows:

- a non-volatile memory (column 2, lines 27-36) for storing a defective row address and a defective column address corresponding to a memory cell in a volatile memory which is determined as defective in an electric test; and - a volatile memory (column 2, lines 13-14) for holding the defective row address, the defective column address and the defective device information transferred thereto upon start-up of a system ((column 3, lines 46-48), the volatile memory including a redundant memory cell which is accessed instead of the memory cell determined as defective in the volatile memory (column 8, lines 1-3).

Allowable Subject Matter

- 5. Claims 2 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Claim 4 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Art Unit: 2818

Claims 2, 4 and 6 recite the volatile memory comprising a plurality of fuse elements which can be blown out by laser light. The prior art does not teach or suggest this limitation.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huan Hoang whose telephone number is (571) 272-1779. The examiner can normally be reached on Mon-Fri 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Huan Hoang Primary Examiner Art Unit 2818

HH 01/07/04.